Division of Air Quality 601 57th Street SE Charleston, WV 25304 Phone (304) 926-0475 Fax (304) 926-0479



Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

west virginia department of environmental protection

G70-D GENERAL PERMIT ENGINEERING EVALUATION

PREVENTION AND CONTROL OF AIR POLLUTION IN REGARD TO THE CONSTRUCTION, MODIFICATION, RELOCATION, ADMINISTRATIVE UPDATE AND OPERATION OF NATURAL GAS PRODUCTION FACILITIES LOCATED AT THE WELL SITE

LOCATED AT THE WELL SITE						
APPLICATION NO.: G70-D243	FACILITY ID: 051-00158					
☐ CONSTRUCTION ☑ MODIFICATION ☐ RELOCATION	☐ CLASS I ADMINISTRATIVE UPDATE ☐ CLASS II ADMINISTRATIVE UPDATE					
BACKGROUND	INFORMATION					
Name of Applicant (as registered with the WV Sec Company, LLC	retary of State's Office): SWN Production					
Federal Employer ID No. (FEIN): 26-4388727						
Applicant's Mailing Address: 10000 Energy Drive	e					
City: Spring State: TX	ZIP Code: 77389					
Facility Name: Gladys Briggs Pad						
Operating Site Physical Address: 560 Briggs Lane If none available, list road, city or town and zip of facility.						
City: Cameron Zip Code: 26033 County: Marshall						
Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: 39.76787 Longitude: -80.61593						
SIC Code: 1311 NAICS Code: 211111	Date Application Received: February 27, 2017					
Fee Amount: \$1,500	Date Fee Received: March 2, 2017					
Applicant Ad Date: February 20, 2017	Newspaper: Moundsville Daily Echo					
Date Application Complete: March 22, 2017	Due Date of Final Action: May 6, 2017					
Engineer Assigned: Jonathan Carney						

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G70-D GENERAL PERMIT ED PREVENTION AND CONTROL OF AIR POLLUTION IN RELOCATION, ADMINISTRATIVE UPDATE AND OPER LOCATED AT T	REGARD TO THE CONSTRUCTION, MODIFICATION, RATION OF NATURAL GAS PRODUCTION FACILITIES
APPLICATION NO.: G70-D 243	FACILITY ID: 051-00158
☐ CONSTRUCTION ☑ MODIFICATION ☐ RELOCATION	☐ CLASS I ADMINISTRATIVE UPDATE ☐ CLASS II ADMINISTRATIVE UPDATE
Description of Permitting Action: The applicant pro and one (1) 400-bbl produced water tank and to add ENG1), four (4) 1.0-MMBtu/hr natural gas-fired Gl MMBtu/hr line heaters (EU-LH2-EU-LH4), and one with pilot (EU-PILOT). Emissions from the conder and fugitive sources have been revised to reflect the	d one (1) Caterpillar G3306 NA engine (EU-PU burners (EU-GPU2 – EU-GPU5), three (3) 1.5 e (1) 8 MMBtu/hr vapor combustor (APC-COMB) insate and produced water storage tanks, haul road,

PROCESS DESCRIPTION

The following process description was taken from Registration Application G70-D243:

The facility is an oil and natural gas exploration and production facility, responsible for the production of natural gas. Storage of condensate and produced water also occur on-site. A description of the facility process is as follows: Condensate, gas and water come from the five wellheads to the line heaters and then the production units, where the first stage of separation occurs. Produced water is sent from the production units to the produced water tanks. Condensate and residual water are sent to the heater treater. The flash from the heater treater via a natural gas-fired engine-driven flash gas compressor. Condensate and produced water from the heater treater are routed to the storage tanks.

The natural gas stream exits the facility for transmission via pipeline. Condensate and produced water are transported offsite via truck. Loading emissions are controlled with vapor return, which has at least 70% capture efficiency routed to the vapor combustor for at least 98% destruction efficiency. Working, breathing and flashing vapors from the condensate and produced water storage tanks are routed to the vapor combustor to be burned with at least 98% combustion efficiency. The vapor combustor has one (1) natural gas-fired pilot to ensure a constant flame for combustion.

SITE INSPECTION

Site Inspection Date: January 22, 2015

Site Inspection Conducted By: Angela Carey Results of Site Inspection: In Compliance

Did Applicant meet Siting Requirements? From Google Maps it appears that the facility is over 400 ft

from any building and meets the general permit siting requirement minimum of 300 ft.

If applicable, was siting criteria waiver submitted? N/A

Directions to Facility: From Interstate 470 in Wheeling, WV, take exit 2 (Bethlehem). Turn left after exiting onto CR 92/1 if traveling west bound on Interstate 470. Turn right onto CR 91/1 if traveling east bound on Interstate 470. Travel 0.46 miles to SR 88 and bear right at the stop light onto SR 88 South. (Ridgecrest Road). Travel 8.27 miles on CR 88 to the intersection SR 88 and US250 and turn left onto SR 250 towards Cameron, WV. Upon arriving in Cameron on US 250, continue to travel south on US 250 for 3.44 miles to the intersection of US 250 and CR 94 (Fish Ridge Road) and turn right onto CR94. (Begin the 3.44 mile distance to CR 94 from the intersection of CR 25/2 (Loudenville Road) and US 250 in Cameron.) Travel 0.736 miles on CR 94 to the intersection of CR 94 to well pad entrance on right.



ESTIMATE OF EMISSIONS BY REVIEWING ENGINEER

The following table indicates which methodology was used in the emissions determination:

Emission Unit ID#	Process Equipment	Calculation Methodology (e.g. ProMax, GlyCalc, mfg. data, AP-42, etc.)
EU-ENG1	145-hp Caterpillar G3306 NA Engine w/Catalytic Converter	Mfg. Data, AP-42, 40CFR98
EU-GPU1 to EU- GPU5	Five (5) 1.0-MMBtu/hr GPU Burners	AP-42
EU-HT1	One (1) 0.5-MMBtu/hr Heater Treater	AP-42
EU-LH1 to EU-LH5	Five (5) 1.5-MMBtu/hr Line Heaters	AP-42
EU- TANKS- COND	Two (2) 400-bbl Condensate Tanks Routed to Vapor Combustor	ProMax
EU- TANKS-PW	Two (2) 400-bbl Produced Water Tanks Routed to Vapor Combustor	ProMax
EU-LOAD- COND	Condensate Truck Loading w/Vapor Return Routed to Combustor	AP-42
EU-LOAD- PW	Produced Water Truck Loading w/Vapor Return Routed to Combustor	AP-42
APC- COMB	One (1) 8.0-MMBtu/hr Vapor Combustor- Tank/Loading Stream	TCEQ Guidance, AP-42
EU-PILOT	Vapor Combustor Pilot	AP-42
EU-FUG	Fugitive Emissions	EPA-453/R-95-017
EU-HR	Fugitive Haul Road Emissions	AP-42

The total facility PTE for the facility (excluding fugitive emissions) is shown in the following table:

Pollutant	Facility Wide PTE (tons/year)	PTE Change for Modification (tons/year)
Nitrogen Oxides	11.82	10.34
Carbon Monoxide	17.15	15.93
Volatile Organic Compounds	6.18	-7.97
Particulate Matter	0.63	10.85
Particulate Matter-10/2.5	0.63	10.85
Sulfur Dioxide	0.04	0.03
Formaldehyde	0.38	0.09
Total HAPs	0.89	-0.04
Carbon Dioxide Equivalent	10,708.29	10,820.44

Maximum detailed controlled point source emissions were calculated by the applicant and checked for accuracy by the writer and are summarized in the table on the next page.

APPLICANT: SWN Production Company, LLC	SWNP	roduction	Compan	y, LLC			FAC	HILIT	FACILITY NAME: Gladys Briggs Pad	IE: GIS	dys Brig	gs Pad			9	G70-D243
Emission Point ID#	Z	NOx	S	00	VOC	Ω	SO ₂)2	PM ₁₀	0110	PM _{2.5}	2.5	Met	Methane	DHD	GHG (CO ₂ e)
	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	lb/hr	lb/hr	1b/hr
EU-ENG1	0.32	1.40	0.64	2.80	0.22	86.0	<0.01	<0.01	0.02	0.11	0.02	0.11	<0.01	0.01	155.19	679.73
EU-GPU1 to EU-GPU5	0.55	2.42	0.46	2.03	0.03	0.13	<0.01	0.01	0.04	0.18	0.04	0.18	0.01	0.05	585.49	2564.44
EU-HT1	90.0	0.24	0.05	0.20	<0.01	0.01	<0.01	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	58.55	256.44
EU-LH1 to EU- LH5	0.66	2.90	0.56	2.44	0.04	0.16	<0.01	0.02	0.05	0.22	0.05	0.22	0.01	90.0	702.59	3077.33
EU-LOAD- COND		•	4		0.20	68.0	1					•	<0.01	0.01	90.0	0.27
EU-LOAD-PW		1		ı	0.05	0.21							0.03	0.15	98.0	3.76
APC-COMB	1.10	4.84	2.21	6.67	0.86	3.79	<0.01	<0.01	0.02	0.10	0.02	0.10	0.02	0.08	942.08	4,126.32
EU-PILOT	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	5.30	23.21
EU-FUG	ı	ı	•	1	99.0	2.91	0	4	ı	-	1		1.02	4.49	25.61	112.16
EU-HR	•	1	•			-		ı	3.71	12.19	3.71	12.19				
TOTAL	2.69	11.82	3.92	17.16	2.06	80.6	<0.01	0.03	3.84	12.82	3.84	12.82	1.09	4.85	2,475.73	10,843.66

APPLICANT: SWN Production Company, LLC	SWN Pro	duction (ompany,	ГГС		FACII	LITY]	NAME	FACILITY NAME: Gladys Briggs Pad	Briggs I	ad		G7(G70-D243
Fmission Doint 10#	Forma	Formaldehyde	Ben.	Benzene	Tolu	Toluene	Ethylb	Ethylbenzene	Xylenes	nes	Нех	Hexane	Total	Total HAPs
	lb/hr	tpy	1b/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	tpy	lb/hr	1b/hr
EU-ENG1	60.0	0.38	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01			0.10	0.44
EU-GPU1 to EU- GPU5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	1	1		•	0.01	0.04	0.01	0.05
EU-HT1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	•	ı			<0.01	<0.01	<0.01	<0.01
EU-LH1 to EU- LH5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01					0.01	0.05	0.01	0.05
EU-TANKS- COND	•		1		The state of the s				•		1	in the second se	Designation of the second seco	
EU-TANKS-PW	L		ı	ı	The state of the s	The state of the s	1	,		ı				MALASSI (p. managara)
EU-LOAD-COND	<0.01		<0.01	<0.01	<0.01	0.01	<0.01	0.01	0.01	0.02	0.01	0.03	0.01	90.0
EU-LOAD-PW	<0.01		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.01	<0.01	0.01
APC-COMB	<0.01	ŧ	<0.01	<0.01	0.01	0.03	0.01	0.03	0.02	60.0	0.03	0.11	90.0	0.27
EU-PILOT	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	,		ı		<0.01	<0.01	<0.01	<0.01
EU-FUG	<0.01	•	<0.01	<0.01	<0.01	0.01	<0.01	0.02	0.01	0.04	0.02	0.08	0.03	0.15
EU-HR	1		1	,		•	1	-	•				•	William to the control of the contro
TOTAL	0.09	0.38	<0.01	0.01	<0.01	0.05	0.01	90.0	0.04	0.16	0.08	0.33	0.22	1.03
									A T T T T T T T T T T T T T T T T T T T	VALUE OF THE PARTY	The second secon			

REGULATORY APPLICABILITY

45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers)

The purpose of 45CSR2 (Particulate Air Pollution from Combustion of Fuel in Indirect Heat Exchangers) is to establish emission limitations for smoke and particulate matter which are discharged from fuel burning units.

45CSR2 states that any fuel burning unit that has a heat input under ten (10) MMBTU/hr is exempt from Sections 4 (weight emission standard), 5 (control of fugitive particulate matter), 6 (registration), 8 (testing, monitoring, recordkeeping, reporting) and 9 (startups, shutdowns, malfunctions). However, failure to attain acceptable air quality in parts of some urban areas may require the mandatory control of these sources at a later date. If the individual heat input of all of the proposed fuel burning units are below 10 MMBTU/hr, these units are exempt from the aforementioned sections of 45CSR2. However, the registrant would be subject to the opacity requirements in 45CSR2, which is 10% opacity based on a six minute block average. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
EU- GPU1 to EU- GPU5	Five (5) 1.0-MMBtu/hr GPU Burners	1.0
EU-HT1	One (1) 0.5-MMBtu/hr Heater Treater	0.5
EU-LH1 to EU- LH5	Five (5) 1.5-MMBtu/hr Line Heaters	1.5

45CSR6 (To Prevent and Control Air Pollution from the Combustion of Refuse)

45CSR6 prohibits open burning, establishes emission limitations for particulate matter, and establishes opacity requirements. Sources subject to 45CSR6 include completion combustion devices, enclosed combustion devices, and flares.

The facility-wide requirements of the general permit include the open burning limitations §§45-6-3.1 and 3.2.

All completion combustion devices, enclosed combustion devices, and flares are subject to the particulate matter weight emission standard set forth in §45-6-4.1; the opacity requirements in §\$45-6-4-3 and 4-4; the visible emission standard in §45-6-4.5; the odor standard in §45-6-4.6; and, the testing standard in §\$45-6-7.1 and 7.2.

Enclosed combustion control devices and flares that are used to comply with emission standards of NSPS, Subpart OOOO are subject to design, operational, performance, recordkeeping and reporting requirements of the NSPS regulation that meet or exceed the requirements of 45CSR6.

Emission Unit ID#	Maximum Design Heat Input (MDHI) (MMBTU/hr)	Subject to Weight Emission Standard?	Control Efficiency Claimed by Registrant	Provide Justification how 45CSR6 is met.
APC-COMB	8.0	⊠ Yes □ No	98%	The combustor has minimal particulate matter emissions. Therefore, the combustor should demonstrate compliance with this section. The facility will demonstrate compliance by maintaining records of the amount of natural gas consumed by the combustor and the hours of operation. The facility will also monitor the flame of the combustor and record any malfunctions that may cause no flame to by present during operation.

45CSR10 (To Prevent and Control Air Pollution from the Emission of Sulfur Oxides)

45CSR10 establishes emission limitations for SO₂ emissions which are discharged from stacks of fuel burning units. A "fuel burning unit" means and includes any furnace, boiler apparatus, device, mechanism, stack or structure used in the process of burning fuel or other combustible material for the primary purpose of producing heat or power by indirect heat transfer. Sources that meet the definition of "Fuel Burning Units" per 45CSR10-2.8 include GPUs, inline heaters, heater treaters, and glycol dehydration unit reboilers.

Fuel burning units less than 10 MMBtu/hr are exempt. The sulfur dioxide emission standard set forth in 45CSR10 is generally less stringent than the potential emissions from a fuel burning unit for natural gas. The SO₂ emissions from a fuel burning unit will be listed in the G70-D permit registration at the discretion of the permit engineer on a case-by-case basis. Issues such as non-attainment designation, fuel use, and amount of sulfur dioxide emissions will be factors used in this determination. Fuel burning units greater than 10 MMBTU/hr are ineligible for registration under General Permit G70-D

Fuel burning units burning natural gas are exempt from Section 8 (Monitoring, Recording and Reporting) as well as interpretive rule 10A. The G70-D eligibility requirements exclude from eligibility any fuel burning unit that does not use natural gas as the fuel; therefore, there are no permit conditions for 45CSR10.

Emission Unit ID#	Emission Unit Description	Maximum Design Heat Input (MDHI) (MMBTU/hr)
EU- GPU1 to EU- GPU5	Five (5) 1.0-MMBtu/hr GPU Burners	1.0
EU-HT1	One (1) 0.5-MMBtu/hr Heater Treater	0.5
EU-LH1 to EU- LH5	Five (5) 1.5-MMBtu/hr Line Heaters	1.5

45CSR13 (Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Administrative Updates, Temporary Permits, General Permits, and Procedures for Evaluation)

45CSR13 applies to this source due to the fact that the applicant is defined as a "stationary source" under 45CSR13 Section 2.24.b. Stationary source means, for the purpose of this rule, any building, structure, facility, installation, or emission unit or combination thereof, excluding any emission unit which meets or falls below the criteria delineated in Table 45-13B which: (a) is subject to any substantive requirement of an emission control rule promulgated by the Secretary; (b) discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any

tons per year of hazardous air pollutants considered on an aggregated basis; (d) discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts shown in Table 45-13A or greater; or, (e) an owner or operator voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even though not otherwise required to do so. 45CSR13 has an original effective date of June 1, 1974. The applicant meets the definition of a stationary source because (check all that apply): Subject to a substantive requirement of an emission control rule promulgated by the Secretary. Discharges or has the potential to discharge more than six (6) pounds per hour and ten (10) tons per year, or has the potential to discharge more than 144 pounds per calendar day, of any regulated air pollutant. Discharges or has the potential to discharge more than two (2) pounds per hour or five (5) tons per year of hazardous air pollutants considered on an aggregated basis. Discharges or has the potential to discharge any air pollutant(s) listed in Table 45-13A in the amounts shown in Table 45-13A or greater. Voluntarily chooses to be subject to a construction or modification permit pursuant to this rule, even though not otherwise required to do so. General Permit G70-D Registration satisfies the construction, modification, relocation and operating permit requirements of 45CSR13. General Permit G70-D sets forth reasonable conditions that enable eligible registrants to establish enforceable permit limits. Section 5 of 45CSR13 provides the permit application and reporting requirements for construction of and modifications to stationary sources. No person shall cause, suffer, allow or permit the construction, modification, relocation and operation of any stationary source to be commenced without notifying the Secretary of such intent and obtaining a permit to construct, modify, relocate and operate the stationary source as required in the rule or any other applicable rule promulgated by the Secretary. If applicable, the applicant meets the following (check all that apply): Construction Modification Class I Administrative Update (45CSR13 Section 4.2.a) Class II Administrative Update (45CSR13 Section 4.2.b) 45CSR16 (Standards of Performance for New Stationary Sources Pursuant to 40 CFR Part 60) 45CSR16 applies to all registrants that are subject to any of the NSPS requirements described in more detail in the Federal Regulations section. Applicable requirements of NSPS, Subparts IIII, JJJJ and OOOO are included in General Permit G70-D. The applicant is subject to: 40CFR60 Subpart IIII 40CFR60 Subpart JJJJ 40CFR60 Subpart OOOO

regulated air pollutant; (c) discharges or has the potential to discharge more than two (2) pounds per hour or five (5)

45CSR22 (Air Quality Management Fee Program)

40CFR60 Subpart OOOOa

45CSR22 is the program to collect fees for certificates to operate and for permits to construct or modify sources of air pollution. 45CSR22 applies to all registrants. The general permit fee of \$500 is defined in 45CSR13. In addition to the application fee, all applicants subject to NSPS requirements or NESHAP requirements shall pay additional fees of \$1,000 and \$2,500, respectively.

Registrants are also required to obtain and have in effect a valid certificate to operate in accordance with 45CSR22 §4.1. The fee group for General Permit G70-D is 9M (all other sources) with an annual operating fee of \$200.

40CFR60 Subpart IIII (Standards of Performance for Stationary Compression Ignition Internal Combustion Engines)

Subpart IIII sets forth non-methane hydrocarbon (NMHC), hydrocarbon (HC), nitrogen oxides (NOx), carbon monoxide (CO), and particulate matter (PM) emission limits, fuel requirements, installation requirements, and monitoring requirements based on the year of installation of the subject internal combustion engine. The provisions for stationary compression ignition (CI) internal combustion engines for owners or operators of this Subpart have been included in General Permit G70-D, Section 13. The following CI engines are subject to this section:

The facility does not contain an affected source (compression ignition engine) and is therefore not subject to this subpart.

40CFR60 Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines)

Subpart JJJJ sets forth nitrogen oxides (NOx), carbon monoxide (CO), and volatile organic compound (VOC) emission limits, fuel requirements, installation requirements, and monitoring requirements based on the year of installation of the subject internal combustion engine. The provisions for stationary spark ignition (SI) internal combustion engines for owners or operators of this Subpart have been included in General Permit G70-D, Section 13.

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	Provide Justification how 40CFR60 Subpart JJJJ is met.
EU-ENG1	145-hp Caterpillar G3306 NA Engine w/Catalytic Converter	145	After January 1, 2011	

40CFR60, Subpart OOOO (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after August 23, 2011, and on or before September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOO establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions from affected facilities that commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015. The affected sources which commence construction, modification or reconstruction after August 23, 2011 and on or before September 18, 2015 are subject to the applicable provisions of this Subpart as described below:

Gas well affected facilities are included in General Permit G70-D in Section 5.0. Are there any applicable gas well affected facilities? Yes No If Yes, list.

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOO?
047-051-01586 (8H)	8/30/2013	8/16/2016	Green Completion	0000

Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals that is located between the wellhead and the point of custody transfer to the natural gas transmission

and storage segment. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Each reciprocating compressor affected facility, which is a single reciprocating compressor located between the wellhead and the point of custody transfer to the natural gas transmission and storage segment. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic controllers affected facilities are included in General Permit G70-D, Section 10.0. Are there any applicable pneumatic controller affected facilities? Yes No	
For the natural gas production segment (between the wellhead and the point of custody transfer to the natural gas transmission and storage segment and not including natural gas processing plants), each pneumatic controller affected facility, which is a single continuous bleed natural gas-driven pneumatic controller operating at a natural gas bleed rate greater than 6 scfh.	
Requirements for storage vessel affected facilities are included in General Permit G70-D, Section 7.0. Determination of storage vessel affected facility status is included in Section 6.0 of General Permit G70-D. Are there any applicable storage vessel affected facilities? Yes No If No, list any emission reduction devices and control efficiencies used to avoid 40CFR60 Subpart	

Working/Breathing/Flashing losses are captured and sent to Vapor Combustor with 98% destruction efficiency. 70% of loading losses are captured and sent to the same Vapor Combustor with 98% destruction efficiency.

0000.

Each storage vessel affected facility, which is a single storage vessel located in the oil and natural gas production segment, natural gas processing segment or natural gas transmission and storage segment, and has the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section by October 15, 2013 for Group 1 storage vessels and by April 15, 2014, or 30 days after startup (whichever is later) for Group 2 storage vessels. A storage vessel affected facility that subsequently has its potential for VOC emissions decrease to less than 6 tpy shall remain an affected facility under this subpart.

40CFR60, Subpart OOOOa (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution for which Construction, Modification or Reconstruction Commenced after September 18, 2015)

EPA published its New Source Performance Standards (NSPS) and air toxics rules for the oil and gas sector on August 16, 2012. EPA published amendments to the Subpart on September 23, 2013 and June 3, 2016.

40CFR60 Subpart OOOOa establishes emission standards and compliance schedules for the control of the pollutant greenhouse gases (GHG). The greenhouse gas standard in this subpart is in the form of a limitation on emissions of methane from affected facilities in the crude oil and natural gas source category that commence construction, modification or reconstruction after September 18, 2015. This subpart also establishes emission standards and compliance schedules for the control of volatile organic compounds (VOC) and sulfur dioxide (SO₂) emissions from affected facilities that commence construction, modification or reconstruction after September 18, 2015. The effective date of this rule is August 2, 2016.

For each well site, the registrant must reduce GHG (in the form of a limitation on emissions of methane) and VOC emissions by complying with fugitive emissions monitoring as required in §60.5397a and the alternative means of emission limitations in §60.5398a.

Gas well affected facilities are included in General Permit G70-D in Section 5.0. Are there any applicable gas well affected facilities? Yes No If Yes, list.

API Number	Date of Flowback	Date of Well Completion	Green Completion and/or Combustion Device	Subject to OOOOa?
047-051-01788 (6H)	TBD	TBD	Green Completion	OOOOa
047-051-01873 (205H)	TBD	TBD	Green Completion	OOOOa
047-051-01883 (10H)	TBD	TBD	Green Completion	0000a
047-051-01885 (210H)	TBD	TBD	Green Completion	OOOOa

Each centrifugal compressor affected facility, which is a single centrifugal compressor using wet seals. A centrifugal compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this Subpart.

Each reciprocating compressor affected facility, which is a single reciprocating compressor. A reciprocating compressor located at a well site, or an adjacent well site and servicing more than one well site, is not an affected facility under this subpart.

Pneumatic controllers affected facilities are included in General Permit G70-D, Section 10.0. Are there any applicable pneumatic controller affected facilities? Yes No
Each pneumatic controller affected facility not located at a natural gas processing plant, which is a single continuous bleed natural gas-driven pneumatic controller operating at a natural gas bleed rate greater than 6 scfh.
Requirements for storage vessel affected facilities are included in General Permit G70-D, Section 7.0. Are there any applicable storage vessel affected facilities? Yes No If No, list any emission reduction devices and control efficiencies used to avoid 40CFR60 Subpart OOOO.

Working/Breathing/Flashing losses are captured and sent to Vapor Combustor with 98% destruction efficiency. 70% of loading losses are captured and sent to the same Vapor Combustor with 98% destruction efficiency.

Each storage vessel affected facility, which is a single storage vessel with the potential for VOC emissions equal to or greater than 6 tpy as determined according to this section.

Fugitive Emissions GHG and VOC Standards affected facilities are included in General Permit G70-D in Section 12.0.

Did the registrant commence construction, modification, or reconstruction of the well site after September 18, 2015 and is subject to §60.5397a? X Yes No

For the purposes of §60.5397a, a "modification" to a well site occurs when a new well is drilled at an existing well site, a well at an existing well site is hydraulically fractured, or a well at an existing well site is hydraulically refractured.

A well site that only contains one or more wellheads is not an affected facility under this subpart. The affected facility status of a separate tank battery surface site has no effect on the affected facility status of a well site that only contains one or more wellheads.

Requirements for pneumatic pump affected facilities are included in General Permit G70-D, Section 16.0.						
Are there any applicable pneumatic pump affected facilities at the well site? Yes No If Yes, list.						
Each pneumatic pump affected facility at the well site, which is a single natural gas-driven diaphragm pump. A single natural gas-driven diaphragm pump that is in operation less than 90 days per calendar year is not an affected facility under this subpart as well as the required records are kept.						
40CFR63 Subpart HH (National Emission Standards for Hazardous Air Pollutants From Oil and Natural Gas Production Facilities)						
This Subpart applies to owners and operators of each triethylene glycol (TEG) dehydration unit that are located at oil and natural gas production facilities. Only areas source requirements are included in General Permit G70-D, as defined in §63.761.						
For area source applicability, the affected source includes each trietheylene glycol (TEG) dehydration unit located at a facility that meets the criteria specified in §63.760(a).						
Glycol dehydration unit(s) are included in General Permit G70-D, Section 15.0.						
Are there any TEG dehydration unit(s) at this facility? Yes No						
Are the TEG dehydration unit(s) located within an Urbanized Area (UA) or Urban Cluster (UC)? Yes No						
Are the glycol dehydration unit(s) exempt from 40CFR63 Section 764(d)? Yes No						
If Yes, answer the following questions:						
The actual annual average flowrate of natural gas to the glycol dehydration unit(s) is less than 85 thousand standard cubic meters per day, as determined by the procedures specified in §63.772(b)(1) of this Subpart. Yes No						
The actual average emissions of benzene from the glycol dehydration unit process vent(s) to the atmosphere are less than 0.90 megagram per year (1 ton per year), as determined by the procedures specified in §63.772(b)(2) of this Subpart. Yes No						
40CFR63 Subpart ZZZZ (National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines)						

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This Subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations. This section reflects EPA's final amendments to 40 CFR part 63, Subpart ZZZZ that were issued on January 15, 2013 and published in the Federal Register on January 30, 2013.

WVDEP DAQ has delegation of the area source air toxics provisions of this Subpart requiring Generally Achievable Control Technology (GACT). The provisions of this Subpart have been included in this general permit under Section 13.0.

Emission Unit ID#	Engine Description (Make, Model)	Engine Size (HP)	Date of Manufacture	New or Existing under 40CFR63 Subpart ZZZZ?	Provide Justification how 40CFR63 Subpart ZZZZ is met.
EU- ENG1	145-hp Caterpillar G3306 NA Engine w/Catalytic Converter	145	After January 1, 2011	New	Commenced construction after June 12 2006. Shall comply with 40CFR60 Subpart JJJJ

ENG1	Engine w/Catalytic Converter					
	ity date in 40CFR60 S			40CFR60 Subpart 2 ⊠ No	ZZZZ but manufactured bef	ore
All and a second			DDAKEN A PEC	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
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RECOM	MENDATION 1	O DIRE	CTOR			
received, i applicant h impact on	ndicates the appli	cant meet et the eligi area shoul	s all the require bility requirement d be minimized	ements of applicents of General P and it is recom	upplemental information and the cable regulations and the cable regulations and the capital and the facility and the facility and the facility are the facility are the facility and the facility are the facility are the facility and the facility are the facility and the facility are the facility are the facility and the facility are the facility and the facility are the facility are the facility and the facility are the facility are the facility are the facility and the facility are the facility	ne e,
	ineer Signature:	Ponathen	- Carray			